

WHAT IS CLAIMED IS:

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1. (Amended) A method for transferring information from a network via an interface incompatible with the network to a mobile device that is compatible with both the network and the interface, the method comprising:

establishing a communication channel between the mobile device and a switch, wherein the switch is accessible to the network and is adapted to send and receive messages compatible with both the network and interface using functionality inherited directly from the network and interface;

receiving information from the network;  
inserting the information into a first message compatible with the interface; and  
transferring the first message to the mobile device via the interface.

2. The method of claim 1 further comprising extracting the information from the first message to recover the inserted information.

3. The message of claim 2 further comprising processing the extracted information.

4. The method of claim 1 wherein establishing the communication channel occurs prior to authenticating the mobile device in the network.

5. The method of claim 4 further comprising:  
receiving a second message from the mobile device via the interface, wherein the second message is compatible with the interface; and  
converting the second message received via the interface into information compatible with the network.

6. The method of claim 5 further comprising inserting information compatible with the network into the second message.

7. The method of claim 1 further comprising identifying a preselected field in the first message, wherein the information is inserted into the preselected field.

8. A method for manipulating data by a mobile station, wherein the mobile station is compatible with at least first and second incompatible telecommunications protocols, the

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method comprising:

receiving a first message using the first protocol;  
identifying information in the first message compatible with the second protocol;  
extracting the identified information from the first message; and  
5 processing the extracted information using the second protocol.

9. The method of claim 8 further comprising:

inserting information compatible with the second protocol into a second message  
compatible with the first protocol; and

10 transmitting the second message via an air interface using the first protocol.

10. (Amended) A system for enabling communications between a mobile unit and a  
network over an air interface, wherein the network and interface are based on first and second  
incompatible protocols, respectively, and wherein the mobile unit is compatible with both  
15 protocols, the system comprising:

a call controller inherited directly from the network and adapted for using the first  
protocol;

a mobility manager inherited directly from the network and adapted for using the  
first protocol and accessible to the call controller;

20 at least a portion of a base station inherited directly from the interface and adapted  
for using the second protocol; and

a message converter accessible to the call controller and the base station portion,  
wherein the message converter is adapted to convert information compatible with the first or  
second protocol into information compatible with the other protocol.

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11. Cancelled

12. The system of claim 10 wherein the message converter includes a plurality of instructions,  
including:

30 an instruction for receiving a first message based on the first protocol from the network;

an instruction for inserting the first message into a second message compatible the second  
protocol;

an instruction for receiving a third message based on the second protocol from the  
interface; and

35 an instruction for extracting a fourth message compatible with the first protocol from the

third message.

13. The system of claim 12 further comprising an instruction for converting the third message into a fifth message compatible with the first protocol if the third message does not contain the fourth message.

14. The system of claim 10 wherein the first protocol is a Global System for Mobile communications (GSM) protocol and wherein the second protocol is a code division multiple access (CDMA) protocol.

15. The system of claim 10 wherein the second protocol is a Global System for Mobile communications (GSM) protocol and wherein the first protocol is a code division multiple access (CDMA) protocol.

16. (Amended) A method for transferring GSM-based information between a GSM communications system and a GSM/CDMA compatible mobile device via a CDMA interface, the method comprising:

establishing a CDMA channel between the mobile device and a switch, wherein the switch is accessible to the GSM network and adapted to send and receive both GSM and CDMA messages, and wherein the switch establishes the channel using a base station system application part and radio resource manager inherited from the CDMA interface;

receiving, via a mobility management agent inherited by the switch from the GSM system, GSM-based information from the GSM network;

inserting the information into a CDMA message; and

transferring the CDMA message to the mobile device via the CDMA interface.

17. The method of claim 16 wherein establishing the CDMA channel occurs prior to authenticating the mobile device in the GSM network.

18. The method of claim 16 further comprising:  
receiving CDMA information from the mobile device; and  
converting the CDMA information into GSM information for compatibility with the GSM network.

19. The method of claim 16 wherein the CDMA message is an "ADDS Deliver" message, and

wherein inserting the GSM information into the CDMA message includes identifying a predetermined field in the "ADDS Deliver," wherein the predetermined field is used to store the GSM information.

- 5     20.     The method of claim 16 further comprising:  
             extracting the GSM information from the CDMA message; and  
             processing the extracted GSM information.
- 10     21. (Amended) A method for transferring CDMA-based information between a CDMA  
             communications system and a GSM/CDMA compatible mobile device via a GSM interface, the  
             method comprising:  
                 establishing a GSM channel between the mobile device and a switch, wherein the switch is  
                 accessible to the CDMA network and adapted to send and receive both GSM and CDMA  
                 messages, and wherein the switch establishes the channel using functionality inherited directly  
15     from the GSM interface;  
                 receiving, via functionality inherited by the switch from the CDMA system, CDMA-based  
                 information from the CDMA network;  
                 inserting the information into a GSM message; and  
                 transferring the GSM message to the mobile device via the GSM interface.
- 20     22.     The method of claim 21 wherein establishing the GSM channel occurs prior to  
             authenticating the mobile device in the GSM network.
- 25     23.     The method of claim 21 further comprising:  
             receiving GSM information from the mobile device; and  
             converting the GSM information into CDMA information for compatibility with the  
             CDMA network.
- 30     24. (New) A hybrid mobile switching center for enabling communication between otherwise  
             incompatible first and second telecommunication technologies, the hybrid mobile switching center  
             comprising:  
                 a call control agent inherited from the first technology;  
                 a mobility management agent inherited from the first technology, wherein the mobility  
                 management agent is accessible to the call control agent;  
35     a base station system application part and radio resource manager inherited from the

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second technology; and

- 5 a message converter module accessible to the mobility management agent and the base station system application part, wherein the message converter module is configured to convert messages received from the mobility management agent into the second technology and messages received from the base station system application part into the first technology, and wherein the call control agent, the mobility management agent, and the base station system application part and radio resource manager are inherited from their respective technologies without altering their configuration.

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